

Configure Firepower Chassis Manager Registration to a Smart Software Manager On-Prem

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Introduction

This document describes step-by-step instructions to register a Firepower Chassis Manager (FCM) on Firepower 4100/9300 platforms to a Smart Software Manager (SSM) On-Prem.

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Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Firepower Chassis Manager on Firepower 4100/9300 series
- Smart Software Manager On-Prem
- Smart licensing model for Firepower products

Components Used

The information in this document is based on these software/hardware versions:

- Firepower Chassis Manager 2.7(1.92)
- Smart Software Manager On-Prem 7

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any step.

Background Information

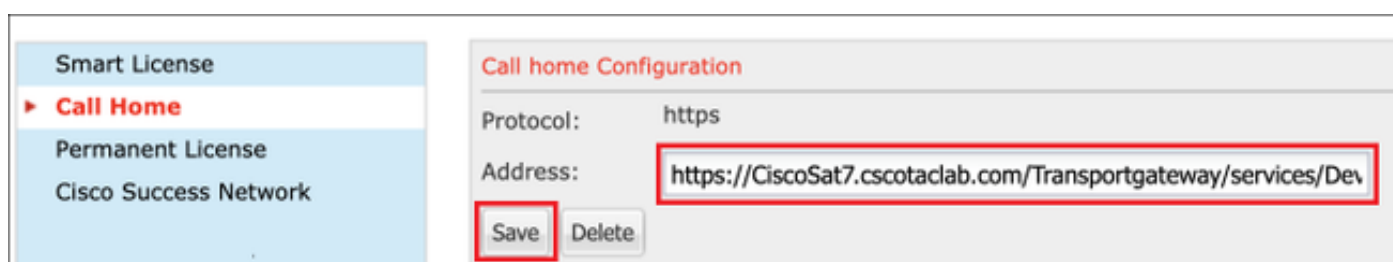
Cisco Smart Software Manager On-Prem (formerly known as Cisco Smart Software Manager satellite) is a component of Cisco Smart Licensing that works in conjunction with Cisco Smart Software Manager. It offers near real-time visibility and reporting of the Cisco licenses you purchase and consume, while giving security-sensitive organizations a way to access a subset of Cisco SSM functionality without using a direct internet connection to manage their install base.

Procedure

Once you have Smart Software Manager On-Prem registered to your smart account, follow these steps to register it on the FCM.

Step 1. On the FCM, navigate to **System > Licensing > Call Home**, edit and save the call home settings using the address:

`https://[FQDN of On-Prem server]/Transportgateway/services/DeviceRequestHandler`



Smart License

- **Call Home**
- Permanent License
- Cisco Success Network

Call home Configuration

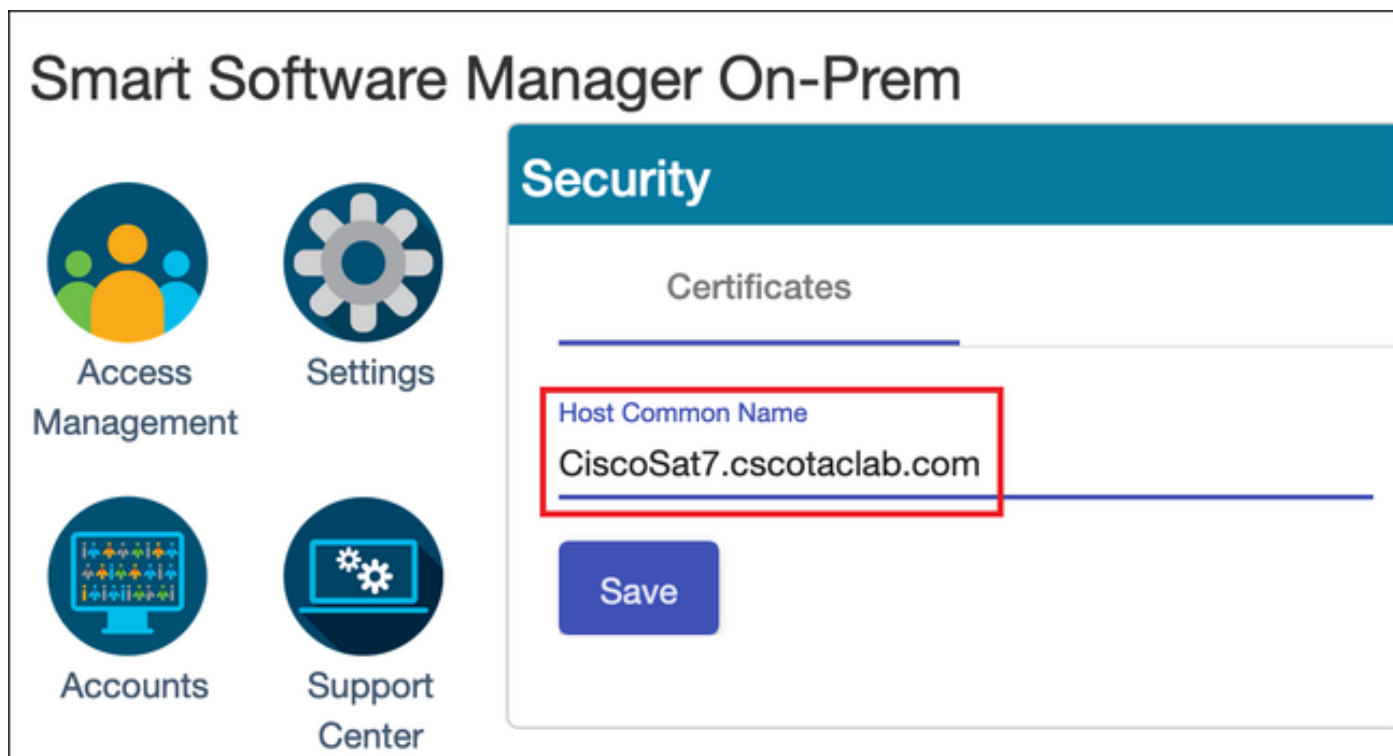
Protocol: https

Address: `https://CiscoSat7.cscotaclab.com/Transportgateway/services/Dev`

Save Delete

The FQDN of On-Prem server must match the **Host Common Name configured on the SSM.**

To check the configured Host Common Name on the SSM On-Prem 7, log into the SSM Administration workspace and navigate to **Security** tab.



Smart Software Manager On-Prem

- Access Management
- Settings
- Accounts
- Support Center

Security

Certificates

Host Common Name

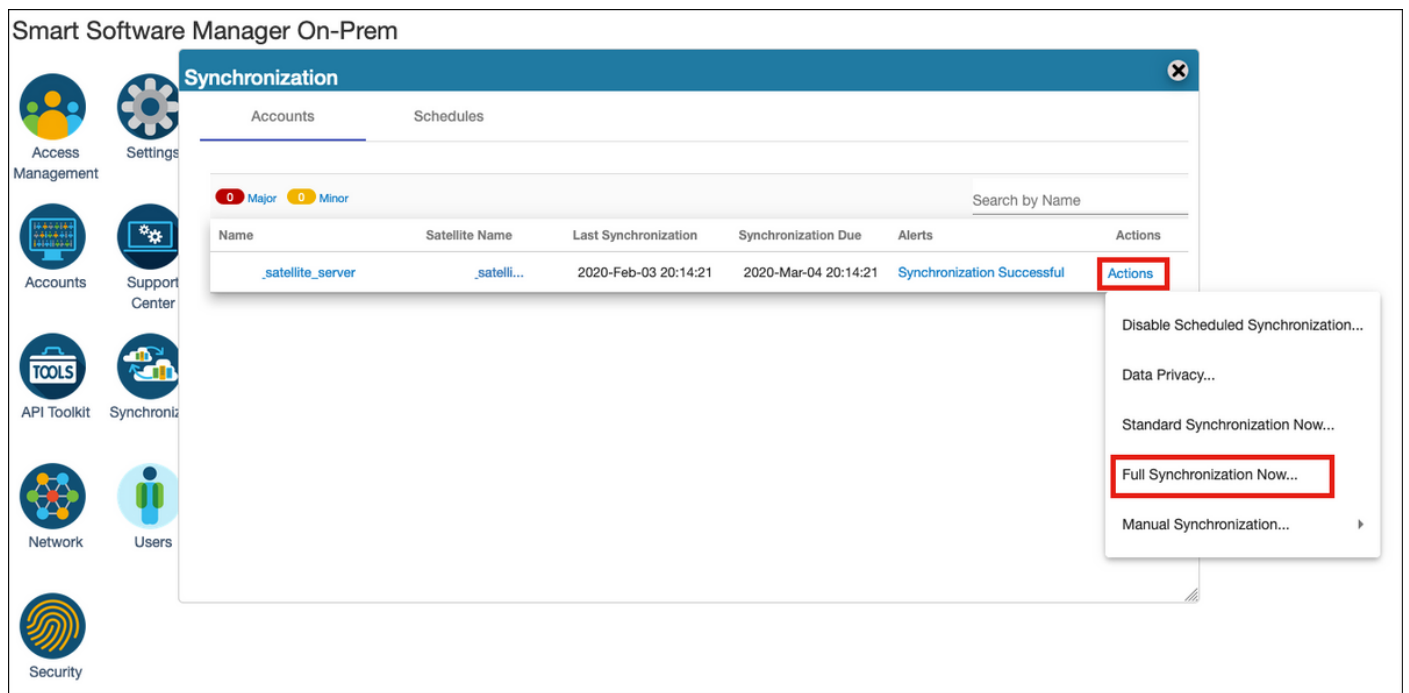
`CiscoSat7.cscotaclab.com`

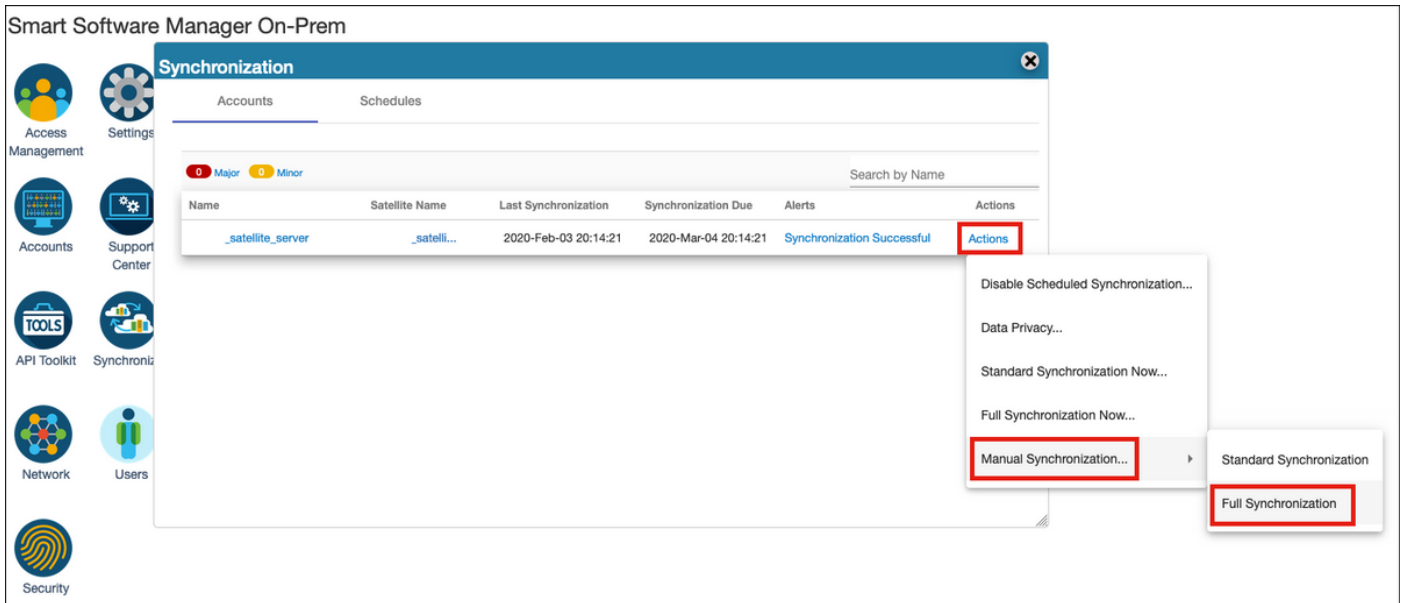
Save

Tip: SSM Host Common Name can be also verified using OpenSSL tool command **`openssl s_client -connect [OnPrem server IP]:443`**

```
MCPrt:~ user$ openssl s_client -connect 10.48.23.171:443
CONNECTED(00000003)
depth=2 0 = Cisco, CN = Cisco Licensing Root CA
verify error:num=19:self signed certificate in certificate chain
verify return:0
---
Certificate chain
 0 s:/CN=CiscoSat7.cscotaclab.com/OU=TC/C=US/O=Cisco
  i:/C=US/O=Cisco/CN=TG SSL CA
 1 s:/C=US/O=Cisco/CN=TG SSL CA
  i:/O=Cisco/CN=Cisco Licensing Root CA
 2 s:/O=Cisco/CN=Cisco Licensing Root CA
  i:/O=Cisco/CN=Cisco Licensing Root CA
---
[...]
```

- Note:** In case of **Host Common Name** change via SSM GUI, synchronize SSM with the OnPrem Account on the Cisco Licensing page using one of the 2 synchronization options:
1. On-Demand Online: assumes there is an Internet connection and is done via **Full Synchronization Now..**
 2. On-Demand Manual: is done via **Manual Synchronization > Full Synchronization**



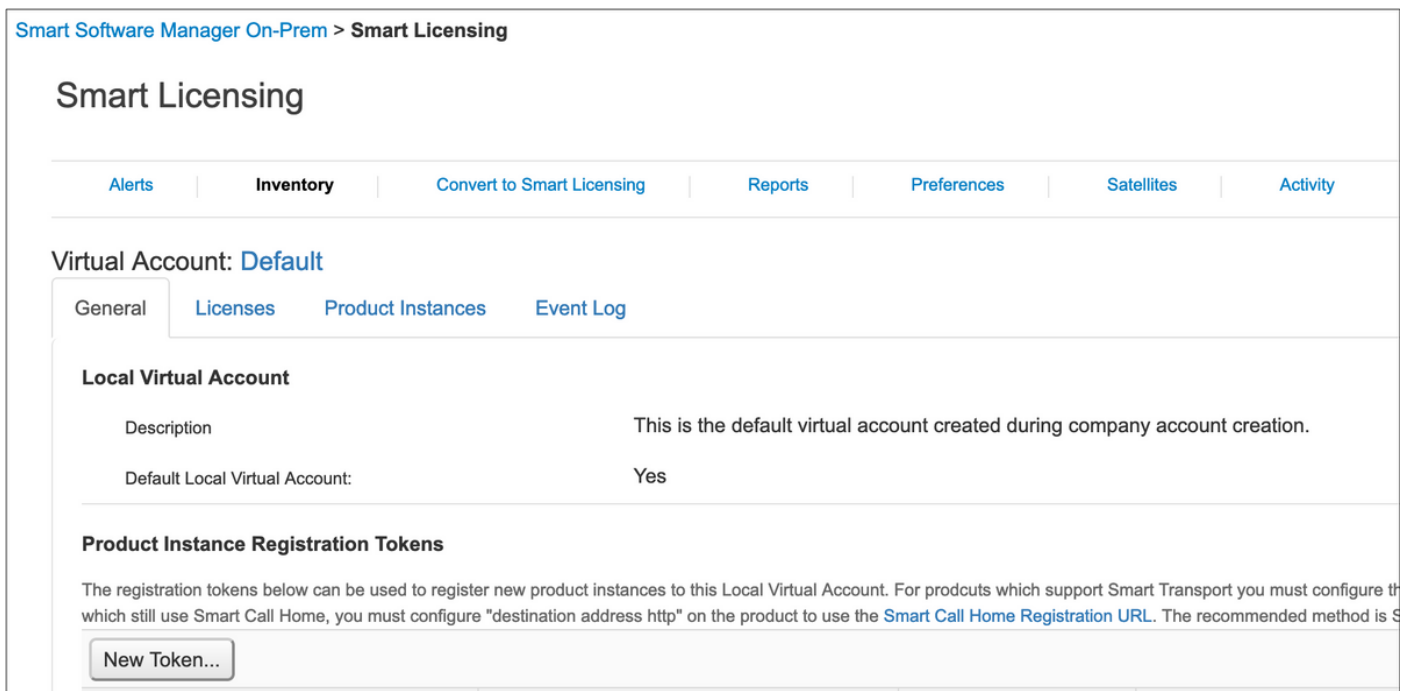


Ensure that FQDN is resolved by the DNS server configured on the FCM.

Tip: SSM reachability can be checked on the FCM CLI from the local-mgmt level

```
FPR4110# connect local-mgmt
FPR4110(local-mgmt) # ping CiscoSat7.cscotaclab.com
PING CiscoSat7.cscotaclab.com (10.48.23.171) from 10.62.148.38 eth0: 56(84) bytes of data.
64 bytes from 10.48.23.171: icmp_seq=1 ttl=53 time=47.9 ms
64 bytes from 10.48.23.171: icmp_seq=2 ttl=53 time=47.9 ms
```

Step 2. Log in to the SSM On-Prem 7 **Licensing** workspace and navigate to **Smart Licensing > Inventory > General**.



Step 3. Select **New Token** to generate a token.

Product Instance Registration Tokens

The registration tokens below can be used to register which still use Smart Call Home, you must configure "

New Token...

Step 4. Enter description, expiration time for a token and select **Create Token**.

Create Registration Token

This dialog will generate the token required to register your product instances with your Account.

Virtual Account	Default
Description	<input type="text" value="token1"/>
Expire After	<input type="text" value="30"/> Days <small>Enter the value between 1 and 365, but Cisco recommends a maximum of 30 days</small>
Max. Number of Uses	<input type="text"/>

The token will be expired when either the expiration or the maximum uses is reached

Allow export-controlled functionality on the products registered with this token ⓘ

Step 5. Copy the token to the clipboard.

Step 6. Navigate to FCM System > Licensing > Smart License, paste the token and select Register.

Smart License

- Call Home
- Permanent License
- Cisco Success Network

Welcome to Smart Licenses

Smart License is not set up in this product. To use smart license, first register this product with Cisco Smart Software Manager

Smart License Product Registration

Enter Product Instance Registration Token:

1234ODU5Mzgt1234567890ExLWIwYtctYfYzA00TjZGI1LlE2MDQzMDc2%0AMjkyNTJ8Q25rU21234IEcFg0ZTNON2czZW01VDREQjJpV1dyMGdzWit2MUdn%0AdjV1234567890

If you don't have your product instance registration token, you may copy it from your Cisco Smart Software Manager under the assigned virtual account.

Cisco Success Network

Cisco Success Network enablement provides usage information and statistics to Cisco which are essential for Cisco to provide technical support. This information also allows Cisco to improve the product and to make you aware of unused available features so that you can maximize the value of the product in your network. [Click here](#) to check out the sample data that will be sent to Cisco.

You can disable the Cisco Success Network anytime by visiting the Cisco Success Network preferences pane.

Disconnection of Cisco Success network will not impact the receipt of Updates or operations of the Smart Licensing; such functions will continue to operate normally.

Enable Cisco Success Network

Register

Verify

The license status can be confirmed when you navigate to **System > Licensing > Smart License** or run the command **show license techsupport** on the FCM CLI:

Smart License

- Call Home
- Permanent License
- Cisco Success Network

Smart License Status

Registration:
 Status: REGISTERED
 Smart Account: _satellite_server
 Virtual Account: Default
 Export-Controlled Functionality: ALLOWED
 Initial Registration: SUCCEEDED on Feb 03 2020 20:50:39 CET
 Last Renewal Attempt: None
 Next Renewal Attempt: Aug 01 2020 21:50:39 CEST
 Registration Expires: Nov 02 2020 09:37:25 CET

License Authorization:
 Status: AUTHORIZED on Feb 03 2020 20:50:44 CET
 Last Communication Attempt: SUCCEEDED on Feb 03 2020 20:50:44 CET
 Next Communication Attempt: Mar 04 2020 20:50:44 CET
 Communication Deadline: May 03 2020 21:47:43 CEST

Unregister

```
FPR4110# show license techsupport
```

```
Smart Licensing Tech Support info
```

```
Smart Licensing Status
=====
```

```
Smart Licensing is ENABLED
```

```
Registration:
```

```
  Status: REGISTERED
```

```
  Smart Account: _satellite_server
```

```
  Virtual Account: Default
```

```
  Export-Controlled Functionality: ALLOWED
```

```
  Initial Registration: SUCCEEDED on Feb 03 2020 20:50:39 CET
```

```
  Last Renewal Attempt: None
```

```
  Next Renewal Attempt: Aug 01 2020 21:50:39 CEST
```

```
  Registration Expires: Nov 02 2020 09:37:25 CET
```

```
License Authorization:
```

```
  Status: AUTHORIZED on Feb 03 2020 20:50:44 CET
```

Last Communication Attempt: SUCCEEDED on Feb 03 2020 20:50:44 CET

Next Communication Attempt: Mar 04 2020 20:50:44 CET

Communication Deadline: May 03 2020 21:47:43 CEST

[...]

Related Information

- [Smart Licensing Overview](#)
- [Firepower 4100/9300 FXOS Firepower Chassis Manager Configuration Guide](#)
- [Smart Software Manager On-Prem User Guide](#)